

(617) 720-9600

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Applicants: Janet A. Warrington et al. USSN: 09/950,016 Filed: Atty.: John P. Iwanicki, Reg. No. 34,628 BANNER & WITCOFF, LTD. 28 State Street, 28th Floor, Boston, MA 02109 Attorney Docket No. 03848-00093

23.13µg 120,000 100ng 40,000 Cancer Case 17.74µg Normal 120,000 40,000 100ng 120,000 Cancer 40,000 100ng 6.0µg Case 4 120,000 Normal 40,000 100ng 23.5µg Cancer 120,000 2.97µg 40,000 115ng Case 3 Normal 40,000 120,000 100ng 2.5µg 6.88µд Cancer 120,000 40,000 120ng Case 2 1.56µд 40,000 120,000 Normal 100ng 5.88µg 120,000 Cancer 40,000 75ng Case 1 Normal 48,000 200,000 100ng 8.75µg Approx amt of RNA used for T7 amp ds-cDNA amt after 2 rounds of T7 amp Number of LCM shots Approx # of cells

LCM, RNA isolation and amount of cDNA after 2 rounds of T7 amplification

Figure 1A

Amount of ds-cDNA after 2 rounds of T7 amplification is dependent on the quality of the LCM-generated RNA from the normal and tumor tissues

Percent transcripts detected in normal and tumor tissues Figure 1B

	Cas	se 1	Case 2	e 2	Cas	Case 3	Cas	Case 4	Cas	Case 5
	Normal	Cancer	Normal	Vormal Cancer	Normal	Vormal Cancer	Normal	Vormal Cancer	Normal Cancer	Cancer
% Genes										
detected	25.8	30.3	30.3	33.0	29.4	30.3	35.3	35.8	40.3	40.2

Figure 2A: 39 Genes whose expression changed in 5/5 cases

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Accession Name Number Increase in Tumor D86983 p53-res J03040 Secrets M11147 Ferritin X12451 Cathep					
nor					
			:		
	p53-responsive gene 2		2pter-p25.1	Yes	(Yeudall et al., 1997)
	Secreted protein, acidic, cysteine-rich, osteonectin		5q31.3-q32	Yes	(Porte et al., 1998)
	Ferritin, light polypeptide		19q13.3-q13.4	Yes	(Kimura et al., 2000)
	Cathepsin L		9q21-q22	Yes	(Kawamata et al., 1997; Strojan et al., 2000)
X17042 Proteo	Proteoglycan 1, secretory granule		10q22.1		
X54925 Matrix	Matrix metalloproteinase 1 (interstitial collagenase)	(i	11q22.3	Yes	(Magary et al., 2000)
Z29083 5T4 on	5T4 oncofetal trophoblast glycoprotein		9		
D43968 Runt-re	Runt-related transcription factor 1 (acute myeloid leukemia 1)	eukemia 1)	21q22.23		
X02761 Fibronectin 1	ectin 1		2q34	Yes	(Mighell et al., 1997)
Z74616 Collage	Collagen, type I, alpha 2		7q22.1		0
X57579 Inhibin	Inhibin, beta A (activin A, activin AB alpha polypeptide)	otide)	7p15-p13		
M30257 Vascul	Vascular cell adhesion molecule 1		1p32-p31	Yes	(Liu et al., 1999)
M55998 Humar	Human alpha-1 collagen type I gene,		N/A		
X65965 Superc	Superoxide dismutase 2, mitochondrial		6q25.3	Yes	(Kurokawa et al., 1998; Muramatsu et al., 1995)
X54489 GRO1	GRO1 oncogene (melanoma growth stimulating activity, alpha)	ctivity, alpha)	4q21	Yes	(Loukinova et al., 2000)
L13923 Fibrillin	Fibrillin 1 (Marfan Syndrome)		15q21.1	:	
Decrease in Tumor	Name				
	Zinc finger protein 273		N/A		
J04469 Creatir	Creatine kinase, mitochondrial 1 (ubiquitous)		15q15	Yes	(Lin & Chen, 1991)
L05779 Epoxid	Epoxide hydrolase 2, cytoplasmic		8p21-p12	Yes	(Janot et al., 1993)
M32402 Placen	Placental protein 11 (serine proteinase)		12q13.1		
M69177 Monoa	Monoamine oxidase B		Xp11.4-p11.3		

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Figure 2A Continued: 39 Genes whose expression changed in 5/5 cases

M98447	Transglutaminase 1 (K polypeptide epidermal type I, protein- olutamine-gamma-glutamyltransferase)	14q11.2	Yes	(Shin et al., 1994)
U17077	BENE protein	2q13		
U34252	Aldehyde dehydrogenase 9 (gamma-aminobutyraldehyde dehydrogenase, E3 isozyme)	1q22-q23		
Decrease in	Name			
Tumor				-
U46689	Aldehyde dehydrogenase 10 (fatty aldehyde dehydrogenase)	17p11.2		
U67963	Lysophospholipase-like	3		
U83115	Absent in melanoma 1	6q21		
U90902	Human clone 23612	N/A		
X07695	Keratin 4	12q13	Yes	(Suo et al., 1993)
X07696	Keratin 15	17q21	Yes	(Viaene & Baert, 1995)
X76029	Neuromedin U	4q12		
X76180	Sodium channel, nonvoltage-gated 1 alpha	12p13		
X78549	Protein tyrosine kinase 6	20q13.3		
Y09267	Flavin containing monooxygenase 2	1q23-q251	,	
Y09616	Carboxylesterase 2 (intestine, liver)	16		
Y07909	Epithelial membrane protein 1	12p12.3		
X53296	Interleukin 1 receptor antagonist	2q14.2	Yes	(von Biberstein et al., 1996)
M61855	Cytochrome P450, subfamily IIC (mephenytoin4-hydroxylase), polypeptide 9	10q24	Yes	(Murray et al., 1994)
U18934	TYRO3 protein tyrosine kinase	15q15.1-q21.1		

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Figure 2B: Representative sample of differentially regulated genes

Accession Number	Description/Function	Chromosomal Location	Altered Regulation
Metastatic/Invasion Pathway			
X12451	Cathepsin-L	9q21-22	Up 5/5
X54925	Collagenase/MMP I	11q22.3	Up 5/5
X02419	UPA	10q24	Up 5/5
Z29083	5T4 Oncofetal protein	6q13-14	Up 5/5
Transcriptional			
factors	Punt related transprinties factor/AMI 4	21q22	Up 5/5
D43968	Runt-related transcription factor/AML1	20q13.2	Down 4/5
U85658	ERF1 transcription factor	20013.2	DOWN 4/5
Onco-			
genes/suppressors	0. 5.1.0	4-40 42	
M57731	Gro-Beta Oncogene	4q12-13	Up 4/5
M16038	Lyn-tyrosine kinase (oncogene LYN)	8q13	Up 4/5
L13698	Gas-1	9q21.3-22.1	Up 4/5
	Tumour associated membrane protein (control	40-40-2	Davin 5/5
Y07909	cell-Cekk interactions & cell proliferation)	12p12.3	Down 5/5 Down 5/5
X98311	CEA2 (onco-suppressor)	19q13.2	Down 3/5
M16750	PIM-1-oncogene	6p21.2	
U83115	AIM1 (onco-suppressor)	6q21	Down 4/5
Differentiation Markers			
X07695	Cytokeratin 4	12q13	Down 5/5
X07696	Cytokeratin 15	17q21	Down 5/5
M98447	Transglutaminase 1	14q11.2	Down 5/5
Others			
U37546	Apoptosis-inhibitor protein	11q22-23	Up 5/5
X76029	Neuromedin U	4q12	Down 5/5
S45630	Alpha-beta-crystallin/Rosenthal protein	11q22.3-23.1	Down 4/5
X78932	ZFP HZF9 (potent repressor)	19p12	Down 5/5
U47414	Cyclin G2 (cell cycle regulators)	4q21	Down 4/5

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Figure 2C **UP REGULATED GENES**

Probe set	Description	Ave FC	Method*	T-test
X54925	MMP1, type I interstitial collagenase	429	G	0.093
X05232	MMP3, stromelysin-1	177	G	0.047
X57579	Activin β-A subunit	146	G	0.066
U24577	LDL-phospholipase A2	133	G	0.003
X54489	Melanoma growth stimulatory activity	93	G M Gc	0.040
L23808	MMP12	70	G	0.060
X04602	Interleukin BSF-2	59	G	0.256
U20758	Osteopontin, SPP1	47	G	0.224
M21121	T cell-specific protein, RANTES	40	G	0.129
U09278	Fibroblast activation protein	39	G	0.087
X51441	Serum amyloid A, SAA	39	G	0.037
M63438	Immunoglobulin kappa variable 1D-8	35	G	0.071
Z19574	Cytokeratin 17	34	G	0.125
Z49194	Oct-binding factor	28	G Gc	0.081
U28488	Complement component 3a receptor 1	25	G	0.006
V00536	IFN-γ	24	G	0.150
X02761	Fibronectin	21	G	0.115
J03040	Osteonectin / SPARC	20	Gc	0.227
D55696	Cysteine protease	19	Gc	0.022
X52022	Collagen, type VI α3	18	G	0.202
U89942	Lysyl oxidase-related protein	18 ~	Gc G	0.082
M12759	lg J chain	18	G	0.218
L13286	1,25-dihydroxyvitamin D3 24-hydroxylase	e 17	Gc G	0.052
X66867	Max	16	Gc	0.304
J05070	MMP9, type IV collagenase	16	G	0.287
M87789	IGHG3, Ig heavy constant γ 3	16	G	0.102
X54867	NKG2, lectin-like receptor subfamily C	14	G	0.171
M13755	Interferon induced 17KDa/15KDa	13	G	0.052

^{*}G=GeneChip, M=Matlab, Gc=GeneCluster

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Figure 2D DOWN REGULATED GENES

Probe set	Description	Ave FC	Method*	T-test
X51420	Tyrosinase-related protein	0.06	M	0.202
X07695	Cytokeratin 4C	0.06	GM	0.002
U09578	MAPKAP kinase	0.08	M	0.238
Z84721	Globin, α and ζ	0.08	M	0.036
M32402	Placental protein, PP11	0.10	G M	0.005
HG3884-HT4154	Homeotic Protein, Hpx-42	0.10	G	0.006
U85707	Leukemogenic homolog protein, MEIS1	0.10	G M	0.008
X76180	Ung amiloride sensitive Na+ channel protein	0.10	GM	0.011
Y09267	Flavin-containing monooxygenase 2	0.10	M	0.036
X95240	Cysteine-rich secretory protein 3	0.10	М	0.141
X07696	Cytokeratin 15	0.11	GM	0.004
X76223	MAL, t cell differentiation protein	0.11	GM	0.041
U49114	Prohormone convertase 5 precursor, PC5	0.14	М	0.102
D13643	KIAA0018	0.14	Gc	0.001
U65932	Extracellular matrix protein 1, ECM1	0.14	M	0.048
M25079	Sickle cell β-globin	0.14	M	0.085
M83186	Cytochrome c oxidase subunit VIIa	0.14	M	0.036
D00408	Cytochrome P-450, fetal liver	0.14	G M Gc	0.022
M27160	Tyrosinase, TYR	0.15	M	0.085
X87159	Epithelial amiloride-sensitive Na+ channel, β	0.15	G	0.003
Y07909	Progression Associated Protein	0.15	M	0.004
X76029	Neuromedin U	0.15	G M Gc	0.000
D29958	KIAA0116	0.15	Gc	0.050
U06643	Keratinocyte lectin 14, HKL-14	0.15	M Gc	0.001
X53296	IRAP	0.16	GM	0.012
U15932	Protein phosphatase	0.16	M	0.045
HG4236-HT4506	Zinc Finger Protein, Znf138	0.16	G	0.079
D80010	KIAA0188	0.17	M	0.000

^{*} G = GeneChip, M = Matlab, Gc = GeneCluster

Comparison of percent increases for 3 upregulated genes measured by GeneChip and Real-Time Quantitative PCR Data*

	Samples	1	2	3	4	5
Accession		GC/RTQPCR	GC/RTQPCR	GC/RTQPCR GC/RTQPCR GC/RTQPCR GC/RTQPCR	GC/RTQPCR	GC/RTQPCR
X54925	X54925 Collagenase	4300 / 1100	22900 / 36800	800 / 2200	49500 / 130000	7800 / 16500
X12451	X12451 Pro-cathepsin L	300 / 800	570 / 700	180 / 300	300 / 2800	300 / 400
X02419	UPA	400 / 100	440 / 800	150 / 3200	400 / 980	425 / 900

RT-QPCR= real time quantitative PCR GC= Gene expression data

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Expression measured by GeneChip microarray and Comparison of Differential Collagenase Gene RTQPCR

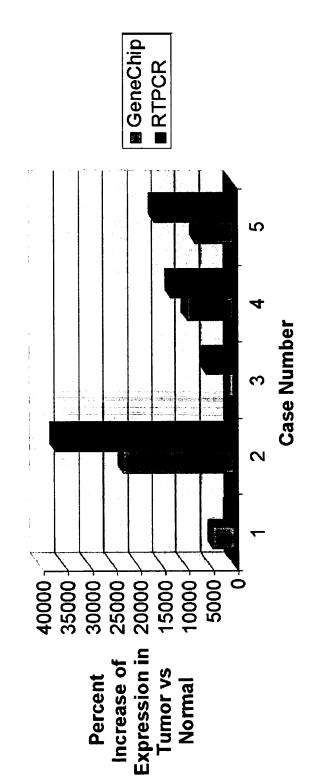


Figure 4

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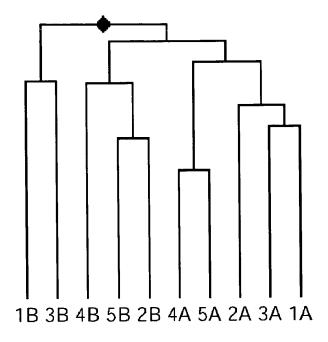


Figure 5

Figure 6: Differentially Expressed Genes Identified by All 3 Methods

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Accession	Name	Expression Up/Down	Chromosome	Oral Cancer	References
Number		in Oral Cancer	Localization	Association	
D00408	Cytochrome P450, subfamily IIIA polypeptide 7	See Comment 1	QN		
D13666	Osteoblast specific factor 2	Up in Cancer	13		
D42047	KIAA0089	Down in Cancer	3		
D43968	Runt-related transcription factor 1	Up in Cancer	21q22.3		
D84276	CD38 antigen (p45)	Up in Cancer	4p15		
HG3494-HT3688	HG3494-HT3688 Nuclear Protein IL6	Up in Cancer	QN	Yes	(Ondrey et al., 1999)
J03258	Vitamin D receptor	Down in Cancer	12q12-q14	Yes	(Lotan, 1997)
J03473	ADP-ribosyltransferase	Up in Cancer	1q41-q42		
103909	Interferon, gamma inducible protein 30	Up in Cancer	19p13.1		
J04080	Complement component 1, s subcomponent	Up in Cancer	12p13		
M14200	Diazepam binding inhibitor	Down in Cancer	2q12-q21		
M15661	Ribosomal protein L36a	Down in Cancer	14		
M34309	v-erb-b2 avian erythroblastic leukemia viral oncogene homolog3	Down in Cancer	12q13	Yes	(Shintani et al., 1995)
M69177	Monoamine oxidase B	Down in Cancer	Xp11.4-p11.3		
M81182	ATP-binding cassette, subfamily D	Down in Cancer	1p22-p21		
845630	Crystallin, alpha B	Down in Cancer	11q22.3-q23.1		
U18934	TYRO3 protein tyrosine kinase	Down in Cancer	15q15.1-q21.1		
U34252	Aldehyde dehydrogenase 9	Down in Cancer	1q22-q23		
U46689	Aldehyde dehydrogenase 10	Down in Cancer	17p11.2		
U56814	Deoxyribonuclease I-like 3	Down in Cancer	3p21.1-p14.3		
X12451	Cathepsin L	Up in Cancer	9q21-q22	Yes	(Kawamata et al., 1997; Strojan et al., 2000)
X54489	GRO1 oncogene (MGSA)	Up in Cancer	4q21	Yes	(Loukinova et al., 2000)
X76029	Neuromedin U	Down in Cancer	4q12		
X78932	Zinc finger protein 273	Down in Cancer	QN		
X87241	FAT tumor suppressor	Up in Cancer	4q34-q35		
Y00815	Protein tyrosine phosphatase, receptor, type, F	Down in Cancer	1934	Yes	
Z29083	5T4 oncofetal trophoblast glycoprotein	Up in Cancer	9		

AC002115 cds1 at "AC002115, class A, 20 probes, 16 in AC002115mRNA#2 3349-7559: 4 not in GB record, COX6B gene (COXG) extracted from Human DNA from

"AB000114, class A, 20 probes, 20 in AB000114 1818-2208, Human mRNA for osteomodulin, complete cds"

"AB000115, class A, 20 probes, 20 in AB000115 1469-1973, Human mRNA, complete cds"

AB000114 at

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"D00408, class B, 11 probes, 11 in D00408 1373-1921, Human fetal liver cytochrome P-450 (P-450 HFLa), complete cds, Human fetal liver cytochrome P-450 "D43968, class A, 20 probes, 20 in D43968 6790-7222, Human AML1 mRNA for AML1b protein (alternatively spliced product), complete cds" "D49387, class A, 20 probes, 20 in D49387 401-917, Human mRNA for NADP dependent leukotriene b4 12-hydroxydehydrogenase, partial cds. /gb=D49387 "D1151, class A, 20 probes, 20 in D1151exon 1936-2434, Human DNA for endothelin-A receptor, 5' flanking region and"
"D12775, class A, 20 probes, 20 in D12775 3124-3662, Human mRNA for erythrocyte-specific AMP deaminase, complete cds"
"D13644, class A, 20 probes, 20 in D13646 2630-3072, Human mRNA for KIAA0019 gene, complete cds"
"D13666, class A, 20 probes, 20 in D13666 2630-3072, Homo sapiens mRNA for osteoblast specific factor 2 (OSF-2os)"
"D14520, class A, 20 probes, 20 in D14528, Human mRNA for KIAA0102 gene, complete cds"
"D1458, class A, 20 probes, 20 in D16217 1904-2414, Human mRNA for Calpastatin, complete cds"
"D21255, class A, 20 probes, 20 in D21255 3362-3812, Human mRNA for KIAA0006 gene, partial cds"
"D21255, class A, 20 probes, 20 in D25304 4431-4701, Human mRNA for KIAA0006 gene, partial cds"
"D25304, class A, 20 probes, 20 in D25304 21272: 4 in reverseSequence, 114-186, Human gene for hepatitis C-associated microtubular aggregate "AF008445, class A, 20 probes, 20 in AF008445 895-1387, Homo sapiens phospholipid scramblase mRNA, complete cds. /gb=AF008445 /ntype=RNA" "D00003, class B, 12 probes, 12 in D00003 1681-1981, Human liver cytochrome P-450 mRNA, complete cds, Human liver cytochrome P-450 mRNA, "D31883, class A, 20 probes, 20 in D31883 6153-6711, Human mRNA for KIAA0069 gene, complete cds"

"D31887, class A, 20 probes, 20 in D31887 4050-4512, Human mRNA for KIAA0062 gene, partial cds"

"D32129, class A, 20 probes, 20 in D32129 920-1425, Human mRNA for HLA class-I (HLA-A26) heavy chain, complete cds (clone cMIY-1)"

"D38551, class A, 20 probes, 20 in D38551 3082-3592, Human mRNA for KIAA0089 gene, complete cds"

"D42047, class A, 20 probes, 20 in D42047 3472-3970, Human mRNA for KIAA0089 gene, partial cds"

"D42073, class A, 20 probes, 20 in D42073 1551-2049, Human mRNA for reticulocalbin, complete cds" overlapping chromosome 19 cosmids R31396, F25451, and R31076 containing COX6B and UPKA, genomic sequence, COX6B gene (COXG) e" "D43682, class A, 20 probes, 20 in D43682 1584-2115, Human mRNA for very-long-chain acyl-CoA dehydrogenase "D43636, class A, 20 probes, 20 in D43636 3576-4080, Human mRNA for KIAA0096 gene, partial cds" complete cds" VLCAD), complete cds" (P-450 HFLa), AF008445 at D31887_at D32129_f at D00003_s_at complete cds" D43682_s_at D00408 s at D12775_s_at D13666_s_at 'ntype=RNA D42047_at D13644_at D16217_at D21255_at protein p44" D31883_at D25304 at D38551_at D11151 at D14520 at 042073_at D43636 at D43968 at D49387 at D14658 at D28915 at

"D49489, class A; 20 probes, 20 in D49489 1267-1759, Human mRNA for protein disulfide isomerase-related protein P5, complete cds"
"D49950, class A, 20 probes, 20 in D49950 495-918, Human Liver mRNA for interferon-gamma inducing factor(IGIF), complete cds"
"D61391, class A, 20 probes, 20 in D61391 1169-1685, Human mRNA for phosphoribosypyrophosphate synthetase-associated protein 39, complete cds"
"D79987, class A, 20 probes, 20 in D79987 6109-6523, Human mRNA for KIAA0165 gene, complete cds" D49950_at D49489 at D61391_at D79987_at

D79992 at

D79994 at

D79992, class A, 20 probes, 20 in D79992 6597-6897, Human mRNA for KIAA0170 gene, complete cds"

'D79994, class A, 20 probes, 20 in D79994 4227-4749, Human mRNA for KIAA0172 gene, partial cds"

D79990, class A, 20 probes, 20 in D79990 5065-5383, Human mRNA for KIAA0168 gene, complete cds"

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   'D87258, class A, 20 probes, 20 in D87258 1489-1999, Human cancellous bone osteoblast mRNA for serin protease with IGF-binding motif, complete cds"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        "100277, class C, 20 probes, 20 in all_100277 3607-3724, Human (genomic clones lambda-[SK2-T2, HS578T]; cDNA clones RS-[3,4, 6]) c-Ha-ras1 proto-
                                                                                                          "D84239, class A, 20 probes, 20 in D84239 15949-16339, Human mRNA for IgG Fc binding protein, complete cds" "D84276, class A, 20 probes, 18 in D84276 909-1185: 2 in reverseSequence, 1299-1305, Human mRNA for CD38, complete cds"
                                                                                                                                                                                 "D85181, class A, 20 probes, 20 in D85181 1502-2018, Human mRNA for fungal sterol-C5-desaturase homolog, complete cds"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          "J02871, class A, 20 probes, 20 in J02871 1475-1931, Human lung cytochrome P450 (IV subfamily) BI protein, complete cds" "J03040, class A, 20 probes, 20 in J03040 1508-2000, Human SPARC/osteonectin mRNA, complete cds"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 "J03827, class A, 20 probes, 20 in J03827 970-1438, Y box binding protein-1 (YB-1) mRNA"

"J03909, class A, 20 probes, 20 in J03909 461-995, Human gamma-interferon-inducible protein (IP-30) mRNA, complete cds"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               'D87119, class A, 20 probes, 20 in D87119 3614-4160, Human cancellous bone osteoblast mRNA for GS3955, complete cds"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 "J03077, class A, 20 probes, 20 in J03077 2159-2692, Human co-beta glucosidase (proactivator) mRNA, complete cds" "J03258, class A, 20 probes, 20 in J03258mRNA 4003-4561, Human vitamin D receptor mRNA, complete cds" "J03473, class A, 20 probes, 20 in J03473mRNA 3212-3752, Human poly(ADP-ribose) synthetase mRNA, complete cds"
                                                                                                                                                                                                                    "D85429, class A, 20 probes, 20 in D85429exon#3 813-1347, Human DNA for heat shock protein 40, complete cds"
                                "D80010, class A, 20 probes, 20 in D80010 4778-5198, Human mRNA for KIAA0188 gene, partial cds" "D83018, class A, 20 probes, 20 in D83018 2645-3149, Human mRNA for nel-related protein 2, complete cds"
                                                                                                                                                                                                                                                                                                                              "D86959, class A, 20 probes, 20 in D86959 5435-5867, Human mRNA for KIAA0204 gene, complete cds"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            'D86985, class A, 20 probes, 20 in D86985 5502-5946, Human mRNA for KIAA0232 gene, complete cds"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   "D87445, class A, 20 probes, 20 in D87445 6334-6892, Human mRNA for KIAA0256 gene, complete cds"
                                                                                                                                                                                                                                                       "D86956, class A, 20 probes, 20 in D86956 3139-3589, Human mRNA for KIAA0201 gene, complete cds"
                                                                                                                                                                                                                                                                                                                                                               "D86961, class A, 20 probes, 20 in D86961 3678-4188, Human mRNA for KIAA0206 gene, partial cds"
                                                                                                                                                                                                                                                                                                                                                                                             "D86974, class A, 20 probes, 20 in D86974 5077-5308, Human mRNA for KIAA0220 gene, partial cds" "D86983, class A, 20 probes, 20 in D86983 5131-5485, Human mRNA for KIAA0230 gene, partial cds"
'D80000, class A, 20 probes, 20 in D80000 5250-5754, Human mRNA for KIAA0178 gene, partial cds"
                                                                                                                                                                                                                                                                                           "D86957, class A, 20 probes, 20 in D86957 3869-4265, Human mRNA for KIAA0202 gene, partial cds"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              "103474, class A, 20 probes, 20 in J03474cds 3-255, Human serum amyloid A gene, complete cds"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              "Transcription Factor E4tf1, Respiratory, Gamma 2 Subunit, Alt. Splice 4"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          "Major Histocompatibility Complex, Class I, C"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      "Small Nuclear Ribonucleoprotein U1, 1snrp"
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Transcriptional Coactivator Pc4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          "Decorin, Alt. Splice 1"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Nuclear Factor Nf-II6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       "Globin, Beta"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Glycogenin
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HG4557-HT4962_at
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              HG1686-HT4572 s at
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     HG658-HT658_f_at
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     +G2788-HT2896 at
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               4G3570-HT3773 at
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J03258_at
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J03040_at
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J03909_at
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                                                                              D83018 at
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       D80000 at
                                          D80010 at
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Janet A. Warrington et al. Filed: September 10, 2001

(617) 720-9600

USSN: 09/950,016 Filed: September Atty.: John P. Iwanicki, Reg. No. 34,628

Applicants:

,33930_s_at

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"L33842, class A, 20 probes, 20 in L33842mRNA 1213-1639, Homo sapiens (clone FFE-7) type II inosine monophosphate dehydrogenase (IMPDH2) gene,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     "L08895, class C, 20 probes, 20 in all L08895 3518-4059, Homo sapiens MADS/MEF2-family transcription factor (MEF2C) mRNA, complete cds"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  "104469, class B, 20 probes, 11 in 104469exon#9 11-173: 9 not in GB record, Human mitochondrial creatine kinase (CKMT) gene, complete cds"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         "L11931, class A, 20 probes, 20 in L11931 1454-1644, Human cytosolic serine hydroxymethyltransferase (SHMT) mRNA, complete cds"
"L12350, class A, 20 probes, 20 in L13286 2671-3205, Human thrombospondin 2 (THBS2) mRNA, complete cds"
"L13286, class A, 20 probes, 20 in L13286 2671-3205, Human mitochondrial 1,25-dihydroxyvitamin D3 24-hydroxylase mRNA, complete cds"
"L13329, class A, 20 probes, 20 in L13329exon 434-938, Homo sapiens iduronate-2-sulfatase (IDS) gene"
"L13391, class A, 20 probes, 20 in L13391exon#5 265-808, Human helix-loop-helix basic phosphoprotein (G0S8) gene, complete cds"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  "L24203, class A, 20 probes, 20 in L24203 2423-2891, Homo sapiens ataxia-telangiectasia group D-associated protein mRNA, complete cds"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          "L06895, class A, 20 probes, 20 in L06895 503-977, Homo sapiens antagonizer of myc transcriptional activity (Mad) mRNA, complete cds"
                                                                                                                                                                              "104093, class A, 20 probes, 20 in 104093 1842-2342, Homo sapiens phenol UDP-glucuronosyltransferase (UDPGT) mRNA, complete cds"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       "L05187, class C, 20 probes, 20 in all L05187 2284-2339, Homo sapiens small proline-rich protein 1 (SPRR1A) gene, complete cds"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  "L14837, class A, 20 probes, 20 in L14837 7335-7839, Human tight junction (zonula occludens) protein ZO-1 mRNA, complete cds"
                                                       104076, class A, 20 probes, 20 in 104076mRNA 2171-2651, Human carly growth response 2 protein (EGR2) mRNA, complete cds"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               "L05779, class A, 20 probes, 20 in L05779 1535-2069, Human cytosolic epoxide hydrolase mRNA, complete cds" "L06797, class A, 20 probes, 20 in L06797 1041-1599, Human (clone L5) orphan G protein-coupled receptor mRNA, complete cds"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         "L27560, class A, 20 probes, 20 in L27560mRNA 986-1262, Human insulin-like growth factor binding protein 5 (IGFBP5) mRNA"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 "L19437, class A, 20 probes, 20 in L19437 857-1211, Human transaldolase mRNA containing transposable element, complete cds"
                                                                                                                                                                                                                                                                                                    104162, class A, 20 probes, 20 in 104162mRNA 1406-1940, Human leukocyte IgG receptor (Fc-gamma-R) mRNA, complete cds"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      "L33930, class A, 20 probes, 20 in L33930 1504-2054, Homo sapiens CD24 signal transducer mRNA, complete cds and 3' region'
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             "L19605, class A, 20 probes, 20 in L19605 1483-1915, Homo sapiens 56K autoantigen annexin XI gene mRNA, complete cds"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      "L11370, class A, 20 probes, 20 in L11370 3486-4038, Human protocadherin 42 mRNA, complete cds for abbreviated PC42"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        "L10386, class A, 20 probes, 20 in L10386 2036-2498, Homo sapiens transglutaminase E3 (TGASE3) mRNA, complete cds"
                                                                                                                                                                                                                                                                                                                                                                                                                           '104177, class A, 20 probes, 20 in 104177 5773-6133, Human alpha-1 type XI collagen (COL11A1) mRNA, complete cds"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      "L10717, class A, 20 probes, 20 in L10717 6303-6332, Homo sapiens T cell-specific tyrosine kinase mRNA, complete cds"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               "L23116, class A, 20 probes, 20 in L23116 3296-3644, Homo sapiens galactocerebrosidase (GALC) mRNA, complete cds"
                                                                                                                  "104080, class A, 20 probes, 20 in J04080mRNA 2136-2604, Human complement component C1r mRNA, complete cds"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               "L20591, class B, 20 probes, 11 in L20591exon 1-295: 9 not in GB record, Human annexin III (ANX3) gene, alternative"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        "L32179, class A, 20 probes, 20 in L32179mRNA 1028-1556, Human arylacetamide deacetylase mRNA, complete cds"
                                                                                                                                                                                                                                                                                                                                                                104164, class A, 20 probes, 20 in 104164 366-804, Human interferon-inducible protein 27-Sep mRNA, complete cds"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  "L23808, class A, 20 probes, 20 in L23808 1297-1717, Human metalloproteinase (HME) mRNA, complete cds"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         "105633, class A, 20 probes, 20 in J05633 2714-3008, Human integrin beta-5 subunit mRNA, complete cds"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            "K03430, class C, 20 probes, 20 in all K03430 414-853, Human complement C1q B-chain gene" "L00352, class A, 20 probes, 20 in L00352exon 1952-2492, Human low density lipoprotein receptor gene"
                                                                                                                                                                                                                                             "104130, class A, 20 probes, 20 in J04130mRNA 87-634, Human activation (Act-2) mRNA, complete cds"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              "105070, class A, 20 probes, 20 in J05070 1805-2303, Human type IV collagenase mRNA, complete cds"
104056, class A, 20 probes, 20 in 104056 746-1118, Human carbonyl reductase mRNA, complete cds"
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        "L19872, class A, 20 probes, 20 in L19872 4756-5059, Human AH-receptor mRNA, complete cds"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 "L10373, class A, 20 probes, 20 in L10373 1311-1713, Human (clone CCG-B7) mRNA sequence"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   "L10678, class A, 20 probes, 20 in L10678 1128-1650, Human profilin II mRNA, complete cds"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               exons 1-13, complete cds"
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L06895_at
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J04162_at
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L11370_at
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L12350_at
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'L.76465, class A, 20 probes, 20 in L.76465 1929-2493, Homo sapiens NAD+-dependent 15 hydroxyprostaglandin dehydrogenase (PGDH) mRNA, complete

'L77886, class A, 20 probes, 20 in L77886 5390-5696, Human protein tyrosine phosphatase mRNA, complete cds"

'M11147, class A, 20 probes, 20 in M11147mRNA 251-689, Human ferritin L chain mRNA, complete cds" M11718, class A, 20 probes, 20 in M11718 716-1274, Human alpha-2 type V collagen gene, 3' end"

"M12759, class B, 20 probes, 12 in M12759cds 65-335: 8 in reverseSequence, 1020-1260, Human Ig J chain gene" "M13755, class A, 20 probes, 20 in M13755mRNA 33-591, Human interferon-induced 17-kDa/15-kDa protein mRNA, complete cds"

"M14338, class C, 20 probes, 20 in all_M14338 2740-3281, Human mRNA for protein S and intron"
"M15661, class A, 20 probes, 20 in M15661mRNA 3-338, Human ribosomal protein mRNA, complete cds"
"M15841, class A, 20 probes, 20 in M15841 492-945, Human U2 small nuclear RNA-associated B" antigen mRNA, complete cds"

"M16038, class A, 20 probes, 20 in M16038 1817-2255, Human lyn mRNA encoding a tyrosine kinase" "M16750, class A, 20 probes, 20 in M16750 1699-2210, Human pim-1 oncogene mRNA, complete cds"

M16750_s_at

M15661_at M15841_at M16038_at

"M14200, class A, 20 probes, 20 in M14200mRNA 139-469, Human diazepam binding inhibitor (DBI) mRNA, complete cds"

M14200_mal_at

M14338 at

M14199_s_at

M13755 at

M11147_at M11718 at M12759 at 'M14199, class A, 20 probes, 20 in M14199 2-381, Human laminin receptor (2H5 epitope) mRNA, 5' end"

"L34657, class A, 20 probes, 20 in L34657mRNA 2757-3219, Homo sapiens platelet/endothelial cell adhesion molecule-1 (PECAM-1) gene"

FIGURE 7D

L34657_at .76465_at L77886 at

Applicants: Janet A. Warrington et al. USSN: 09/950,016 Filed: September 10, 2001 Atty.: John P. Iwanicki, Reg. No. 34,628

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"M18737, class A, 20 probes, 20 in M18737mRNA 269-815, GJA1P1 gene extracted from Human Hanukah factor serine protease (HuHF) mRNA, complete "M19720, class A, 20 probes, 20 in MI9720mRNA#2 2659-3217, L-myc gene (L-myc protein) extracted from Human L-myc protein gene, complete cds, L-"M23294, class A, 20 probes, 20 in M23294mRNA#1 1219-1651, Human beta-hexosaminidase beta-subunit (HEXB) gene" "M24194, class A, 20 probes, 20 in M24194mRNA 504-1023, Human MHC protein homologous to chicken B complex protein mRNA, complete cds" "M19045, class A, 20 probes, 20 in M19045 907-1414, Human lysozyme mRNA, complete cds"
"M19481, class C, 20 probes, 14 in all_M19481 278-651: 6 in M19481cds 818-921, Human follistatin gene"
"M19645, class C, 20 probes, 20 in all_M19645 4941-5470, Human 78 kdalton glucose-regulated protein (GRP78) gene, complete cds" "M18728, class A, 20 probes, 20 in MI8728mRNA 1932-2460, Human nonspecific crossreacting antigen mRNA, complete cds" "M17183, class C, 20 probes, 20 in all_M17183 531-752, Human parathyroid hormone-related protein mRNA, complete cds" "M19888, class A, 20 probes, 20 in M19888 58-580, Human small proline rich protein (sprl) mRNA, clone 128" "M21121, class A, 20 probes, 20 in M21121 958-1129, Human T cell-specific protein (RANTES) mRNA, complete cds" "M21389, class A, 20 probes, 20 in M21389mRNA 1754-2192, Human keratin type II (58 kD) mRNA, complete cds" "M22995, class A, 20 probes, 20 in M22995 1008-1542, Human ras-related protein (Krev-1) mRNA, complete cds" protein) extracted from Human L-myc protein gene, complete cds" myc gene (L-myc at M18737_ma1_at M19720 ma2 M17183_s_at M19045 f at M21121_at M21389_at M19645_at M23294 at M18728 at M19481_at M19888 at M22995_at

M24351_cds3_s_at "M24351, class A, 20 probes, 20 in M24351exon 248-404, PTHLH gene (parathyroid hormone-like protein A) extracted from Human parathyroid hormone-"M24351, class C, 20 probes, 20 not in GB record, PTHLH gene (parathyroid hormone-like protein A) extracted from Human parathyroid hormone-like "M24486, class A, 20 probes, 20 in M24486mRNA 2110-2684, Human prolyl 4-hydroxylase alpha subunit mRNA, complete cds, clone PA-11" "M24594, class A, 20 probes, 20 in M24594mRNA 1077-1593, Human interferon-inducible 56 Kd protein mRNA, complete cds" "M24902, class A, 20 probes, 20 in M24902mRNA 2694-3018, Human prostatic acid phosphatase mRNA, complete cds" "M25079, class A, 20 probes, 20 in M25079 163-230, Human sickle cell beta-globin mRNA, complete cds" protein (PLP) gene, PTHLH gene (parathyroid hormone-like protein A) extracted from Human parathyroid hormone-lik" ike protein (PLP) gene, PTHLH gene (parathyroid hormone-like protein A) extracted from Human parathyroid hormon" M24351 cds2 at M25079_s_at M24902 at M24594 at

M24194_at

"M26576, class B, 20 probes, 10 in M26576exon 43-289: 10 not in GB record, COL4A1 gene (alpha-1 type IV collagen) extracted from Human alpha-1 "M26311, class A, 19 probes, 19 in M26311 27-504, Human cystic fibrosis antigen mRNA, complete cds." collagen type IV gene" M26576 cds2 at M26311_s_at

"M27160, class A, 20 probes, 20 in M27160mRNA 1441-1879, Human tyrosinase (TYR) mRNA, complete cds"

M29540 at

M29540, class A, 20 probes, 20 in M29540 2616-2949, Human carcinoembryonic antigen mRNA (CEA), complete cds"

M29064, class A, 20 probes, 20 in M29064 1225-1657, Human hnRNP B1 protein mRNA"

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                                           "M30818, class A, 20 probes, 20 in M30818mRNA 2384-2888, Human interferon-induced cellular resistance mediator protein (MxB) mRNA, complete cds" (M31551, class C, 20 probes, 20 in all M31551 576-1134, Human urokinase inhibitor (PAI-2) gene" (MSNA, complete cds" (M31627, class A, 20 probes, 20 in M31627 1191-1725, Human X box binding protein-1 (XBP-1) mRNA, complete cds"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    "M34516, class C, 11 probes, 11 in all_M34516 426-469, Human omega light chain protein 14.1 (Ig lambda chain related) gene, Human omega light chain
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               "M35878, class A, 20 probes, 20 in M35878exon#4 1993-2443, Human insulin-like growth factor-binding protein-3 gene, complete cds, clone HL1006d" "M36341, class A, 20 probes, 20 in M36341 912-1458, Human ADP-ribosylation factor 4 (ARF4) mRNA, complete cds"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      20 in M77349 2102-2642, Human transforming growth factor-beta induced gene product (BIGH3) mRNA, complete cds"
                                                                                                                                                                                                                                                                                                                                                                                "M33764, class B, 20 probes, 12 in M33764cds 1158-1350: 8 in reverseSequence, 7989-8235, Human ornithine decarboxylase gene, complete cds"
"M33882, class A, 20 probes, 20 in M33882 2348-2762, Human p78 protein mRNA, complete cds"
"M34057, class A, 20 probes, 20 in M34057 4720-5044, Human transforming growth factor-beta 1 binding protein mRNA, complete cds"
"M34309, class A, 20 probes, 20 in M3409 4410-4836, Human epidermal growth factor receptor (HER3) mRNA, complete cds"
"M34423, class A, 20 probes, 20 in M34423 1856-2312, Human beta-galactosidase (GLB1) mRNA, complete cds"
                                                                                                                                                                                          "M31994, class A, 20 probes, 20 in M31994 117-538, Human hypoxanthine phosphoribosyltransferase (HPRT) mRNA, complete cds" "M31994, class C, 20 probes, 20 in all_M31994 117-538, Human cytosolic aldehyde dehydrogenase (ALDH1) gene" "M32011, class A, 20 probes, 20 in M32011mRNA 1623-2157, Human neutrophil oxidase factor (p67-phox) mRNA, complete cds" "M32402, class A, 20 probes, 20 in M32402mRNA 1851-2253, Human placental protein (PP11) mRNA, complete cds"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         "M55542, class A, 20 probes, 20 in M55542mRNA 2310-2802, Human guanylate binding protein isoform I (GBP-2) mRNA, complete cds" "M55998, class C, 20 probes, 20 in all M55998 2-265, Human alpha-1 collagen type I gene, 3' end" "M57710, class A, 20 probes, 20 in M57710 355-865, Human IgE-binding protein (epsilon-BP) mRNA, complete cds"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                "M57731, class A, 20 probes, 20 in M57731mRNA 617-1032, Human gro-beta mRNA, complete cds"
"M59465, class A, 20 probes, 20 in M59465 3867-4341, Human tumor necrosis factor alpha inducible protein A20 mRNA, complete cds"
"M61853, class C, 20 probes, 20 in all_M61853 1735-2240, Human cytochrome P4502C18 (CYP2C18) mRNA, clone 6b"
"M61855, class C, 20 probes, 20 in all_M61855 1535-1714, Human cytochrome P4502C9 (CYP2C9) mRNA, clone 25"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              "M37721, class A, 20 probes, 20 in M37721 3297-3705, Human peptidylglycine alpha-amidating monooxygenase mRNA, complete cds" "M37766, class A, 20 probes, 20 in M37766 475-955, Human MEM-102 glycoprotein mRNA, complete cds"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  M81182, class A, 20 probes, 20 in M81182 2831-3314, Homo sapiens peroxisomal 70 kD membrane protein mRNA, complete cds"
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  "M63835, class A, 20 probes, 20 in M63835mRNA 896-1388, Human IgG Fc receptor I gene"
"M64082, class A, 20 probes, 20 in M64082 1605-2055, Human flavin-containing monooxygenase (FMO1) mRNA, complete cds"
"M64347, class A, 20 probes, 20 in M64347 3336-3720, Human novel growth factor receptor mRNA, 3' cds"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          M69181, class A, 20 probes, 20 in M69181 6995-7523, Human nonmuscle myosin heavy chain-B (MYH10) mRNA, partial cds."
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            "M63256, class A, 20 probes, 20 in M63256 1975-2497, Human major Yo paraneoplastic antigen (CDR2) mRNA, 3' end"
'M30257, class A, 20 probes, 20 in M30257 2214-2709, Human vascular cell adhesion molecule 1 mRNA, complete cds"
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    "M61906, class A, 20 probes, 20 in M61906 2813-3326, Human P13-kinase associated p85 mRNA sequence" "M62982, class A, 20 probes, 20 in M62982 1795-2299, Human arachidonate 12-lipoxygenase mRNA, complete cds"
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      lambda chain related) gene"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          protein 14.1 (Ig
                                                                                                  M31551_s_at
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          M30257 s at
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M64929_at
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M69181_at
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M31642_at
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M61853_at
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M64082_at
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Janet A. Warrington et al. Filed: September 10, 2001

USSN: 09/950,016 Filed: September Atty.: John P. Iwanicki, Reg. No. 34,628 M83186_at "M83186, class A, 20 probes, 20 in M83186 103-316, Human cytochrome c oxidase subunit VIIa (COX7A) muscle isoform mRNA, complete cds" M83667_ma1_s_at "M83667, class A, 20 probes, 20 in M83667mRNA 713-1143, Human NF-IL6-beta protein mRNA, complete cds" M83822_at "M83822, class A, 20 probes, 20 in M83822 6791-7253, Human beige-like protein (BGL) mRNA, partial cds"

FIGURE 7F

"M86699, class A, 20 probes, 20 in M86699 3355-3787, Human kinase (TTK) mRNA, complete cds"

M86699 at

Janet A. Warrington et al. Filed: September 10, 2001 Applicants: USSN: 09/950,016

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S73591, class A, 20 probes, 20 in S73591 2169-2649, brain-expressed HHCPA78 homolog [human, HL-60 acute promyelocytic leukemia cells, mRNA, 2704 "M88458, class A, 20 probes, 20 in M88458 585-1095, Human ELP-1 mRNA sequence" "M93036, class A, 20 probes, 18 in M93036mRNA 987-1353: 2 in reverseSequence, 527-545, Human (clone 21726) carcinoma-associated antigen GA733-2 "M87789, class A, 20 probes, 20 in M87789 1021-1512, Human (hybridoma H210) anti-hepatitis A IgG variable region, constant region, complementarity-'S74017, class A, 20 probes, 20 in S74017 1721-2213, Nrf2=NF-E2-like basic leucine zipper transcriptional activator [human, hemin-induced K562 cells, 'S69232, class A, 20 probes, 20 in S69232 1584-1992, electron transfer flavoprotein-ubiquinone oxidoreductase [human, fetal liver, mRNA, 2124 nt]" 'S68805, class A, 20 probes, 20 in S68805 1972-2305, L-arginine:glycine amidinotransferase [human, kidney carcinoma cells, mRNA, 2330 nt]" "M93426, class A, 20 probes, 20 in M93426 7455-7845, Human protein tyrosine phosphatase zeta-polypeptide (PTPRZ) mRNA, complete cds." "M96740, class A, 20 probes, 20 in M96740 2014-2476, Human NSCL-2 gene sequence." "M97935, class A, 20 probes, 20 in M97935 3412-3886, Human transcription factor ISGF-3 mRNA sequence." "M97936, class A, 20 probes, 20 in M97936 2354-2564, Human transcription factor ISGF-3 mRNA sequence." "M98447, class A, 20 probes, 20 in M98447 mRNA 2256-2670, H.sapiens keratinocyte transglutaminase gene, complete cds." "S45630, class A, 20 probes, 20 in S45630 108-612, alpha B-crystallin=Rosenthal fiber component [human, glioma cell line, mRNA, 691 nt]" 'S62539, class A, 20 probes, 20 in S62539 5366-5756, insulin receptor substrate-1 [human, skeletal muscle, mRNA, 5828 nt]" "S54005, class A, 20 probes, 20 in S54005 2-197, thymosin beta-10 [human, metastatic melanoma cell line, mRNA, 453 nt]" "M93056, class A, 20 probes, 20 in M93056 859-1273, Human mononcyte/neutrophil elastase inhibitor mRNA sequence" "M93221, class A, 20 probes, 20 in M93221mRNA 4618-5110, Human macrophage mannose receptor (MRC1) gene" "S59049, class A, 20 probes, 20 in S59049 786-1314, BL34=B cell activation gene [human, mRNA, 1398 nt]" "S67156, class A, 20 probes, 20 in S67156 876-1368, ASP=aspartoacylase [human, kidney, mRNA, 1435 nt]" "M98776, class A, 20 probes, 20 in M98776mRNA 1864-2266, Human keratin 1 gene, complete cds" determining regions mRNA, complete cds" (GA733-2) mRNA" M98447 mal at M98776_ma1_at S54005_s_at S59049_at M97935 s at M97936_at M93036 at M96740 at M93221_at S68805_at S69232_at M93056_at M93426 at S45630 at S62539_at S67156_at S73591_at S74017 at

"S82597, class A, 20 probes, 20 in S82597mRNA 9-507, Description: UDP-GalNAc:polypeptide N-acetylgalactosaminyltransferase gene extracted from UDP-"S74728, class A, 20 probes, 20 in S74728 1245-1773, antiquitin=26g turgor protein homolog [human, kidney, mRNA, 1809 nt]" "S78187, class A, 20 probes, 20 in S78187 2548-3064, CDC25Hu2=cdc25+ homolog [human, mRNA, 3118 nt]" "S78569, class A, 20 probes, 20 in S78569 5723-6161, laminin alpha 4 chain [human, fetal lung, mRNA, 6204 nt]" GalNAc:polypeptide N-acetylgalactosaminyltransferase/GalNAc-transferase {3' region, exon 11} [human, placent" S82597 mal s at mRNA, 2304 nt]" S74728_at S78187_at S78569_at

"U02020, class C, 20 probes, 20 in all_U02020 1985-2352, Human pre-B cell enhancing factor (PBEF) mRNA, complete cds"
"U02556, class A, 20 probes, 20 in U02556 1579-2101, Human RP3 mRNA, complete cds"
"U03272, class A, 20 probes, 20 in U03272 9619-10081, Human fibrillin-2 mRNA, complete cds"
"U04898, class A, 20 probes, 20 in U04898 1421-1877, Human orphan hormone nuclear receptor RORalpha2 mRNA, complete cds"
"U05861, class B, 20 probes, 15 in U05861exon 50-243: 5 not in GB record, Human hepatic dihydrodiol dehydrogenase gene" J02556_at J02020 at J03272 at

104898_at

"U06643, class A, 19 probes, 19 in U06643 71-463, Human keratinocyte lectin 14 (HKL-14) mRNA, complete cds." "U09278, class A, 20 probes, 20 in U09278 2285-2735, Human fibroblast activation protein mRNA, complete cds" "U07919, class A, 20 probes, 20 in U07919 2973-3399, Human aldehyde dehydrogenase 6 mRNA, complete cds" 106643 s at J05861 at J07919 at

"U09578, class A, 20 probes, 20 in U09578 2012-2456, Human MAPKAP kinase (3pK) mRNA, complete cds"

'U09770, class A, 20 probes, 20 in U09770 61-391, Human cysteine-rich heart protein (hCRHP) mRNA, complete cds"

FIGURE 7G

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"U12767, class A, 20 probes, 20 in U12767 4598-4922, Human mitogen induced nuclear orphan receptor (MINOR) mRNA, complete cds"
"U13737, class A, 20 probes, 20 in U13737 2046-2556, Human cysteine protease CPP32 isoform alpha mRNA, complete cds"
"U14518, class A, 20 probes, 20 in U14518 859-1315, Human centromere protein-A (CENP-A) mRNA, complete cds"
"U14970, class A, 20 probes, 20 in U14970 122-656, Human ribosomal protein S5 mRNA, complete cds"
"U15932, class A, 20 probes, 20 in U15932 1928-2294, Human dual-specificity protein phosphatase mRNA, complete cds"
"U16306, class A, 20 probes, 20 in U16306 10722-11142, Human chondroitin sulfate proteoglycan versican V0 splice-variant precursor peptide mRNA,

"U18062, class A, 20 probes, 20 in U18062 1678-2152, Human TFIID subunit TAFII55 (TAFII55) mRNA, complete cds" "U18934, class A, 20 probes, 20 in U18934 4229-4311, Human receptor tyrosine kinase (DTK) mRNA, complete cds" "U16799, class A, 20 probes, 20 in U16799 865-1419, Human Na,K-ATPase beta-1 subunit mRNA, complete cds" "U17077, class A, 20 probes, 20 in U17077 1716-2190, Human BENE mRNA, partial cds"

"U20158, class A, 20 probes, 20 in U20158 1551-1911, Human 76 kDa tyrosine phosphoprotein SLP-76 mRNA, complete cds" "U20758, class A, 20 probes, 20 in U20758mRNA 885-1437, Human osteopontin gene, complete cds"

"U21128, class A, 20 probes, 20 in U21128 1254-1632, Human lumican mRNA, complete cds"
"U23942, class A, 20 probes, 20 in U23942 2811-3129, Human lanosterol 14-demethylase cytochrome P450 (CYP51) mRNA, complete cds"
"U24166, class A, 20 probes, 20 in U24166 2107-2395, Human EB1 mRNA, complete cds"

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U20158 at

U21128_at U23942_at

complete cds"

U16306 at

U14518 at U14970 at U15932 at

U13737 at

U16799 s at

U17077_at U18062_at U18934_at

"U24577, class A, 20 probes, 20 in U24577 1182-1512, Human LDL-phospholipase A2 mRNA, complete cds"
"U25182, class A, 20 probes, 20 in U25182 350-860, Human antioxidant enzyme AOE37-2 mRNA, complete cds"
"U26312, class A, 20 probes, 20 in U26312 166-686, Human heterochromatin protein HP1Hs-gamma mRNA, complete cds"
"U27326, class A, 20 probes, 20 in U27326 1666-2123, Human alpha (1,3/1,4) fucosyltransferase (FUT3) mRNA, major transcript I, complete cds" J24166_at U24577_at J25182_at

J27326_s_at U26312_s_at

"U27333, class C, 9 probes, 9 in all U27333 2701-2753, Human alpha (1,3) fucosyltransferase (FUT6) mRNA, major transcript I, complete cds, Human alpha 1,3) fucosyltransferase (FUT6) mRNA, major transcript I, complete cds" U27333_s_at

"U31201, class A, 20 probes, 20 in U31201mRNA 4592-5106, Human laminin gamma2 chain gene (LAMC2), Human laminin gamma2 chain gene (LAMC2) "U28488, class A, 20 probes, 20 in U28488 1344-1847, Human putative G protein-coupled receptor (AZ3B) mRNA, complete cds" "U31556, class A, 20 probes, 20 in U31556 1445-1679, Human transcription factor E2F-5 mRNA, complete cds" U31201_cds2_s_at J28488 s at U31556 at

"U32849, class A, 20 probes, 20 in U32849 867-1383, Human Hou mRNA, complete cds" U34252 at U37518 at U32849 at

"U34252, class A, 20 probes, 20 in U34252 2177-2579, Human gamma-aminobutyraldehyde dehydrogenase mRNA, complete cds"
"U37518, class A, 20 probes, 20 in U37518 1162-1390, Human TNF-related apoptosis inducing ligand TRAIL mRNA, complete cds"
"U37519, class A, 20 probes, 20 in U37519 2304-2784, Human aldehyde dehydrogenase (ALDH8) mRNA, complete cds"
"U38545, class A, 20 probes, 20 in U38545 3056-3578, Human ARF-activated phosphatidylcholine-specific phospholipase D1a (hPLD1) mRNA, complete U37519_at U38545_at

"U41060, class A, 20 probes, 20 in U41060 2936-3416, Human breast cancer, estrogen regulated LIV-1 protein (LIV-1) mRNA, partial cds" "U39318, class A, 20 probes, 20 in U39318 159-675, Human E2 ubiquitin conjugating enzyme UbcH5C (UBCH5C) mRNA, complete cds" "U40622, class A, 20 probes, 20 in U40622 999-1449, Human XRCC4 mRNA, complete cds" U39318_at J41060 at J40622 at

"U43944, class A, 20 probes, 20 in U43944 1705-1978, Human breast cancer cytosolic NADP(+)-dependent malic enzyme mRNA, partial cds" U46499_at "U46499, class C, 20 probes, 20 not in GB record, Human microsomal glutathione transferase (GST12) gene, 5' sequence"
U46689_at "U46689, class A, 20 probes, 20 in U46689 3317-3863, Human microsomal aldehyde dehydrogenase (ALD10) mRNA, complete cds"
U46692_mal_at "U46692, class A, 20 probes, 20 in U46692mRNA 84-480, Human cystatin B gene, complete cds"
U48705_mal_s_at "U48705, class A, 20 probes, 20 in U48705mRNA 3326-3867, Human receptor tyrosine kinase DDR gene, complete cds" J43944 at

20 probes, 20 in U49114 2196-2700, Human prohormone convertase 5 precursor (PC5) mRNA, partial cds"

Applicants:

USSN: 09/950,016 Filed: September Atty.: John P. Iwanicki, Reg. No. 34,628

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Attorney Docket No. 03848-00093

Janet A. Warrington et al.

Filed: September 10, 2001

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US0648, class A, 20 probes, 20 in US0648mRNA 2211-2751, Human interferon-inducible RNA-dependent protein kinase (Pkr) gene"

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"U90546, class B, 12 probes, 12 in U90546 1301-1344, Human butyrophilin (BTF4) mRNA, complete cds, Human butyrophilin (BTF4) mRNA, complete cds"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  20 probes, 20 in all X02530 571-1118, Human mRNA for gamma-interferon inducible early response gene (with homology to platelet
                                                                                                             "U55206, class A, 20 probes, 18 in U55206 790-1222: 2 not in GB record, Human gamma-glutamyl hydrolase (hGH) mRNA, complete cds"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               "V00536, class A, 20 probes, 20 in V00536mRNA 811-1135, IFNG gene extracted from Human immune interferon (IFN-gamma) gene"
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          "U96915, class A, 20 probes, 20 in U96915 165-693, Homo sapiens sin3 associated polypeptide p18 (SAP18) mRNA, complete cds."
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            "U67984, class A, 20 probes, 20 in U67784 1106-1640, Human orphan G protein-coupled receptor (RDC1) mRNA, partial cds" "U67963, class A, 20 probes, 20 in U67963 590-1148, Human lysophospholipase homolog (HU-K5) mRNA, complete cds" "U68142, class A, 20 probes, 20 in U68961 1565-1997, Human RalGDS-like 2 (RGL2) mRNA, partial cds" "U69961, class A, 20 probes, 20 in U69961 1565-1997, Human solurshin (RGS) mRNA, complete cds" "U72671, class A, 20 probes, 20 in U72671 1846-2224, Human LOT1 mRNA, complete cds" "U7360, class A, 20 probes, 20 in U73377 3059-3363, Human LOT1 mRNA, complete cds." "U73960, class A, 20 probes, 20 in U73960 566-1022, Human ADP-ribosylation factor-like protein 4 mRNA, complete cds" "U73960, class A, 20 probes, 20 in U77604 13-493, Human microsomal glutathione S-transferase (GST-II) mRNA, complete cds" "U78525, class A, 20 probes, 20 in U78525 2480-2942, Human eukaryotic translation initiation factor (eIF3) mRNA, complete cds"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     "U84573, class A, 20 probes, 20 in U84573 2882-3422, Homo sapiens lysyl hydroxylase isoform 2 (PLOD2) mRNA, complete cds"
'U53446, class A, 20 probes, 20 in U53446 2680-3220, Human mitogen-responsive phosphoprotein DOC-2 mRNA, complete cds'
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              "U63743, class A, 20 probes, 20 in U63743 2187-2715, Human mitotic centromere-associated kinesin mRNA, complete cds."
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       "U65932, class A, 20 probes, 20 in U65932 1244-1634, Human extracellular matrix protein 1 (ECM1) mRNA, complete cds"
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                                                                                                                                                                                                                                                                                                                                                                                                                                                         "U60808, class A, 20 probes, 20 in U60808 1423-2000, Human CDP-diacylglycerol synthase (CDS) mRNA, complete cds."
                                                                                                                                                                                                                                                                                                                               "U60060, class A, 20 probes, 20 in U60060 1090-1540, Human FEZ1 mRNA, complete cds"
"U60115, class A, 20 probes, 20 in U60115 1863-2211, Human skeletal muscle LIM-protein SLIM1 mRNA, complete cds"
                                                                                                                                                                                                                                                                                   "U59877, class A, 20 probes, 20 in U59877 295-750, Human Iow-Mr GTP-binding protein (RAB31) mRNA, complete cds"
                                                                                                                                                                      "U56814, class A, 20 probes, 20 in U56814 495-957, Human DNAse I homologous protein (DHP2) mRNA, complete cds"
                                                U53506, class A, 20 probes, 20 in U53506 1344-1836, Human type II iodothyronine deiodinase mRNA, complete cds."
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                                                                                                                                                                                                                          "U57721, class A, 20 probes, 20 in U57721 1126-1588, Human L-kynurenine hydrolase mRNA, complete cds"
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U53446_at
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"X04470, class B, 19 probes, 15 in X04470cds 24-374: 4 in reverseSequence, 408-495, Human mRNA for antileukoprotease (ALP) from cervix uterus"

X02875, class C, 20 probes, 20 in all X02875 158-628, Human mRNA (3'-fragment) for (2'-5') oligo A synthetase E (1,8 kb RNA)"

X02761, class C, 20 probes, 20 in all. X02761 7082-7646, Human mRNA for fibronectin (FN precursor)"

X02875_s_at X04470_s_at

Applicants: Janet A. Warrington et al. USSN: 09/950,016 Filed: September 10, 2001 Atty.: John P. Iwanicki, Reg. No. 34,628 BANNER & WITCOFF, LTD. (617) 720-9600 28 State Street, 28th Floor, Boston, MA 02109 Attorney Docket No. 03848-00093 SHEET 19 OF 21

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"X06948, class B, 20 probes, 12 in X06948cds 482-680: 8 in reverseSequence, 918-1146, Human mRNA for high affinity IgE receptor alpha-subunit (FCERI)"
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"X16354, class C, 20 probes, 20 in all_X16354 2895-3400, Human mRNA for transmembrane carcinoembryonic antigen BGPa (formerly TM1-CEA)"
"X16396, class C, 20 probes, 20 in all_X16396 1543-2102, Human mRNA for NAD-dependent methylene tetrahydrofolate dehydrogenase cyclohydrolase (EC
                                                                                                                                                                                                                                                                                                                                           'X07438, class A, 19 probes, 19 in X07438exon#2 11-166, Human DNA for cellular retinol binding protein (CRBP) exons 3 and 4 /gb=X07438 /ntype=DNA
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                                                                                                                                                                                                                                                                                                                                                                                                                                               "X07695, class C, 20 probes, 20 in all_X07695 1175-1722, Human mRNA for cytokeratin 4 C-terminal region"
"X07696, class C, 20 probes, 20 in all_X07696 1300-1685, Human mRNA for cytokeratin 15"
"X07834, class C, 20 probes, 20 in all_X07834 515-1026, Human mRNA for manganese superoxide dismutase (EC 1.15.1.1)"
"X12451, class A, 20 probes, 20 in X12451mRNA 974-1496, Human mrRNA for pro-cathepsin L (major excreted protein MEP)"
"X13794, class A, 20 probes, 20 in X13794mRNA 713-1229, H.sapiens lactate dehydrogenase B gene exon 1 and 2 (EC 1.1.1.27) (and joined CDS)"
"X13839, class C, 20 probes, 20 in X14008mRNA 926-1433, Human lysozyme gene (EC 3.2.1.17)"
"X14008, class A, 20 probes, 20 in X14008mRNA 926-1433, Human liver mRNA for 3-oxoacyl-CoA thiolase"
"X14813, class C, 20 probes, 20 in all_X15183 2479-2894, Human mRNA for 90-kDa heat-shock protein"
"X15183, class C, 20 probes, 20 in all_X15187 cds 2089-2380: 10 in reverseSequence, 2521-2737, Human tral mRNA for human homologue of murine tumor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               "X1662, class C, 20 probes, 20 in all_X16662 1399-1916, Human mRNA for vascular anticoagulant-beta (VAC-beta)"

"X17042, class C, 20 probes, 20 in all_X17042 689-1158, Human mRNA for hematopoetic proteoglycan core protein"

"X51408, class C, 20 probes, 20 in all_X51408 1626-2017, Human mRNA for n-chimaerin"

"X51420, class C, 20 probes, 20 in all_X51420 2264-2781, Human mRNA for tyrosinase-related protein"

"X51441, class B, 12 probes, 11 in X51441cds 28-65: 1 in reverseSequence, 228, Human mRNA for serum amyloid A (SAA) protein partial, clone pAS3-
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"X51801, class C, 20 probes, 20 in all_X51801 1415-1824, Human OP-1 mRNA for osteogenic protein"

"X52022, class A, 20 probes, 20 in X52022 9941-10349, H.sapiens RNA for type VI collagen alpha3 chain"

"X52426, class C, 20 probes, 20 in all_X52426 1139-1665, H.sapiens mRNA for cytokeratin 13"

"X53296, class C, 20 probes, 20 in all_X53296 1099-1657, H.sapiens mRNA for IRAP"

"X54489, class A, 20 probes, 20 in X54489mRNA 660-1034, Human gene for melanoma growth stimulatory activity (MGSA)"
"X04602, class C, 20 probes, 20 in all X04602 920-1086, Human mRNA for interleukin BSF-2 (B-cell differentiation factor)"
                                                                                                                                                                                                                                                                                       "X07109, class C, 20 probes, 20 in all X07109 2732-3303, Human mRNA for protein kinase C (PKC) type beta II"
                                                                                                                                                               "X06700, class C, 20 probes, 20 in all X06700 1946-2466, Human mRNA 3' region for pro-alpha1 (III) collagen"
                                                                                                           "X05610, class C, 20 probes, 20 in all X05610 1701-2098, Human mRNA for type IV collagen alpha -2 chain"
                                                   "X05232, class C, 20 probes, 20 in all X05232 1530-1771, Human mRNA for stromelysin"
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X13794_ma1_at
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X54489_ma1_at
                                                                                                                                                                       X06700 s at
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   X04602_s_at
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X51801_at
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   X07696_at
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           X15183_at
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                                                                                                                                                                                                                                                                                       X07109 at
                                                                                                                                                                                                                                                                                                                                                                                                                                                       X07695_at
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           X07834_at
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   X15187 at
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               X16396 at
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                                                           X05232 at
                                                                                                                       X05610 at
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       X17042_at
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"X54867, class A, 20 probes, 20 in X54867mRNA 783-1293, Human mRNA for NKG2-A gene"

"X57522, class C, 20 probes, 20 in all X57522 2229-2788, H.sapiens RING4 cDNA"
"X57579, class A, 20 probes, 18 in X57579exon 545-840: 2 in reverseSequence, 1392-1555, H.sapiens activin beta-A subunit (exon 2)"
"X59770, class A, 20 probes, 20 in X59770mRNA 685-1213, H.sapiens IL-1R2 mRNA for type II interleukin-1 receptor, (cell line CB23)"

"X61970, class A, 20 probes, 17 in X61970cds 299-677: 3 in reverseSequence, 758-860, H.sapiens mRNA for macropain subunit zeta" "X59892, class C, 20 probes, 20 in all X59892 2163-2542, H. sapiens mRNA for IFN-inducible gamma2 protein" "X63629, class C, 20 probes, 20 in all X63629 2582-3126, H.sapiens mRNA for p cadherin" "X61123, class A, 20 probes, 20 in X61123mRNA 1212-1608, Human BTG1 mRNA"

"X65965, class A, 18 probes, 18 in X65965exon#1-2 32-94, H.sapiens SOD-2 gene for manganese superoxide dismutase. /gb=X65965 /ntype=DNA "X65614, class B, 20 probes, 10 in X65614cds 10-262. 10 in reverseSequence, 19-391, H.sapiens mRNA for calcium-binding protein S100P" "X64707, class C, 20 probes, 20 in all X64707 401-888, H.sapiens BBC1 mRNA"

X65965_s_at

"X67098, class A, 20 probes, 20 in X67098exon#8 40-454, H.sapiens rTS alpha mRNA containing four open reading frames" 'X66534, class C, 20 probes, 20 in all_X66534 2622-2953, H.sapiens soluble guanylate cyclase large subunit mRNA" 'annot=exon' X66534_at X67098 at

"X67951, class B, 20 probes, 10 in X67951cds 312-576: 10 in reverseSequence, 642-888, H.sapiens mRNA for proliferation-associated gene (pag)" "X68277, class C, 20 probes, 20 in all X68277 1459-1952, H.sapiens CL 100 mRNA for protein tyrosine phosphatase" X67951_at

"X68742, class C, 20 probes, 20 in all_X68742 2942-3423, H.sapiens mRNA for integrin, alpha subunit" "X69141, class C, 20 probes, 20 in all X69141 1444-1997, H.sapiens mRNA for squalene synthase" X68277_at X68742_at X69141 at

"X75252, class C, 20 probes, 20 in all X75252 1083-1408, H.sapiens phosphatidylethanolamine binding protein mRNA" "X70476, class A, 20 probes, 20 in X70476mRNA 2526-3024, H.sapiens subunit of coatomer complex" X70476 at X75252 at

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"X76180, class C, 20 probes, 20 in all X76180 2760-3115, H.sapiens mRNA for lung amiloride sensitive Na+ channel protein" "X76029, class B, 20 probes, 14 in X76029cds 141-453. 6 in reverseSequence, 636-756, H.sapiens mRNA for neuromedin U" "X76223, class A, 20 probes, 20 in X76223exon 2-540, H.sapiens MAL gene exon 4. K76223 s at K76029_at 776180 at

(76342 at "X76342, class C, 20 probes, 20 in all X76342 144-2019, H.sapiens ADH7 mRNA" (76534 at "X76344, class C, 20 probes, 20 in all X76342 145-2614, H.sapiens NMB mRNA" (76534 at "X7634, class C, 20 probes, 20 in all X76342 145-2614, H.sapiens NMB mRNA" (76534 at "X7634, class C, 20 probes, 20 in all X76342 145-2614, H.sapiens NMB mRNA")

"X76732, class B, 20 probes, 12 in X76732cds 975-1221: 6 in reverseSequence, 1464-1518: 2 not in GB record, H.sapiens NEFA protein mRNA, complete cds "X76648, class C, 20 probes, 20 in all_X76648 338-777, H.sapiens mRNA for glutaredoxin" 776648_at <76732 at

"X77584, class B, 20 probes, 14 in X77584cds 5-215: 6 in reverseSequence, 43-481, H.sapiens mRNA for ATL-derived factor/thiredoxin" "X78549, class C, 20 probes, 20 in all X78549 1912-2186, H.sapiens brk mRNA for tyrosine kinase" leucine zipper protein, calcium-binding EF-hand protein, from acute lymphoblastic leukemia ce" DNA-binding X77584 at K78549 at

"X78932, class C, 20 probes, 20 in all X78932 421-976, H.sapiens HZF9 mRNA for zinc finger protein" "X78565, class C, 20 probes, 20 in all X78565 6971-7512, H.sapiens mRNA for tenascin-C, 7560bp" "X82153, class C, 20 probes, 20 in all X82153 1128-1615, H.sapiens mRNA for cathepsin O" X78565 at K78932_at (82153 at

"X82693, class C, 20 probes, 20 in all_X82693 134-681, H.sapiens mRNA for E48 antigen" "X82200, class C, 20 probes, 20 in all X82200 2236-2801, H.sapiens Staf50 mRNA" "X85116, class C, 20 probes, 20 not in GB record, H.sapiens epb72 gene exon 1" s at X85116 mal X82200 at (82693 at

"X85750, class C, 20 probes, 20 in all X85750 1935-2500, H.sapiens mRNA for transcript associated with monocyte to macrophage differentiation" X91911, class A, 20 probes, 18 in X91911cds 321-711: 2 in reverseSequence, 912-950, H.sapiens mRNA for RTVP-1 protein" 20 probes, 20 in all X87241 14353-14738, H.sapiens mRNA for hFat protein" "X87212, class C, 20 probes, 20 in all_X87212 1273-1772, H.sapiens mRNA for cathepsin C" X91911_s_at X87212_at

FIGURE 7J

X57579 s at

X54941_at X56654_at X59892_at

X59770_at

X61970_at X63629_at X64707_at X65614_at

X61123_at

X95240 s at

X95240, class C, 20 probes, 20 in all X95240 1487-2056, H.sapiens mRNA for cysteine-rich secretory protein-3"

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X96719, class A, 20 probes, 16 in X96719cds 86-398: 4 in reverseSequence, 674-710, H.sapiens mRNA for AICL (activation-induced C-type lectin)" "Z84721, class C, 20 probes, 20 in all Z84721 30317-34635, Human DNA sequence from cosmid GG1 from a contig from the tip of the short arm of "Z29574, class A, 20 probes, 17 in Z29574exon#3 1-373: 1 in reverseSequence, 3141: 2 not in GB record, Homo sapiens gene for BCMA peptide" "Y09267, class A, 20 probes, 20 in Y09267 1148-1664, H.sapiens mRNA for flavin-containing monooxygenase 2 /gb=Y09267 /ntype=RNA" "Z23090, class A, 20 probes, 17 in Z23090cds 277-589. 3 in reverseSequence, 1086-1098, H.sapiens mRNA for 28 kDa heat shock protein" "Y00264, class C, 20 probes, 20 in all_Y00264 2984-3321, Human mRNA for amyloid A4 precursor of Alzheimer disease" "Y00787, class C, 20 probes, 20 in all_Y00787 1314-1469, Human mRNA for MDNCF (monocyte-derived neutrophil chemotactic factor)" "Y00815, class C, 20 probes, 20 in all_Y00815 7107-7684, Human mRNA for LCA-homolog. LAR protein (leukocyte antigen related)" "Y07759, class C, 20 probes, 20 in all_Y07759 5956-6377, H.sapiens mRNA for myosin heavy chain 12" "Z47087, class C, 20 probes, 20 in all Z47087 1065-1438, H.sapiens mRNA for RNA polymerase II elongation factor-like protein" "Z49148, class A, 20 probes, 16 in Z49148cds 2-418: 4 in reverseSequence, 18-589, H.sapiens mRNA for ribosomal protein L29" 'Y07867, class B, 20 probes, 11 in Y07867cds 643-787. 9 in reverseSequence, 1087-1237, H.sapiens mRNA for Pirin, isolate 1" 20 in all X98311 1901-2274, H.sapiens mRNA for carcinoembryonic antigen, CGM2 "Z24727, class C, 20 probes, 20 in all_Z24727 1355-1569, H.sapiens tropomyosin isoform mRNA, complete CDS" "Z48042, class C, 20 probes, 20 in all Z48042 2679-3232, H.sapiens mRNA encoding GPI-anchored protein p137" "Y07909, class C, 20 probes, 20 in all_Y07909 2383-2774, H.sapiens mRNA for Progression Associated Protein" "Z26491, class A, 20 probes, 20 in Z26491exon#5 388-430, H.sapiens gene for catechol O-methyltransferase" "Z74616, class C, 20 probes, 20 in all Z74616 4470-4992, H.sapiens mRNA for prepro-alpha2(I) collagen." "Y09616, class C, 20 probes, 20 in all_Y09616 1443-1948, H.sapiens mRNA for putative carboxylesterase" Z15108, class C, 20 probes, 20 in all_Z15108 1535-2130, H.sapiens mRNA for protein kinase C zeta" chromosome 16, spanning 2Mb of 16p13.3 Contains alpha and zeta globin genes and ESTs., Human DNA sequence from cosm' "Z29083, class C, 20 probes, 20 in all Z29083 1644-2023, H.sapiens 5T4 gene for 5T4 Oncofetal antigen" 'Z49194, class A, 20 probes, 20 in Z49194exon#5 1962-2256, H.sapiens mRNA for oct-binding factor" "Z19574, class A, 20 probes, 20 in Z19574mRNA 1039-1479, H.sapiens gene for cytokeratin 17" 'X98311, class C, 20 probes, aţ at Z19574 mal_ Z23090 at Z84721_cds2_ Z26491_s_at Z29083_at 700787_s_at Z74616 s at 249148 s at Y07759_at Y07867_at Y07909_at Z29574_at Z47087_at 700815_at X96719_at X98311_at Y00264_at Y09267_at Y09616 at ,24727_at 748042 at 249194 at Z15108 at